

Patent claims

1. A method for preparing water-insoluble α -1,4-glucans in which sucrose is converted in vitro to water-insoluble α -1,4-glucans and fructose by an enzyme having the enzymatic activity of an amylosucrase, which comprises carrying out the reaction in an aqueous, buffer-free system.
2. The method as claimed in claim 1, wherein the amylosucrase is an enzyme from a prokaryotic organism.
3. The method as claimed in claim 2, wherein the prokaryotic organism belongs to the genus *Neisseria*.
4. The method as claimed in claim 3, wherein the prokaryotic organism is *Neisseria polysaccharea*.
5. The method as claimed in one of claims 1 to 4, wherein the amylosucrase is produced as a recombinant.
6. The method as claimed in one of claims 1 to 5, wherein a purified amylosucrase is used.
7. The method as claimed in one of claims 1 to 6, wherein the amylosucrase is bound to a support material.
8. The method as claimed in one of claims 1 to 7, wherein an external carbohydrate acceptor is added.

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